

Cummins **Onan**



Marine Generators Pocket Guide



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Quiet Diesel™ (QD) Series **(kW, 50/60 Hz, Model)**

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Introduction

This Cummins® Onan® Marine Generators Pocket Guide offers basic information on our line of diesel generator sets from 4 to 99 kW. More information about all models, including complete specifications, the latest news releases, generator set installation outline drawings, accessories, and much more can be found at www.cumminsonan.com.

Service Support

Cummins Onan generator sets are supported by the largest and best-trained worldwide certified Distributor/Dealer network in the industry. That means wherever your journey takes you, you can feel confident a Cummins Onan Distributor/Dealer is nearby. The largest network in the business makes it easier to get genuine parts, quality service, and expert installation assistance when and where you need them. Our extensive training and certification process demonstrates our strong commitment to exceptional product service and support. To find the nearest authorized Cummins Onan generator certified dealer, visit www.cumminsonan.com/locator.

Warranty

The Cummins Onan Limited Warranty for Marine Generators covers the generators for a period of five (5) years or 2,000 hours, whichever occurs first, from date of delivery to the first retail purchaser. This coverage applies to the original owner and all subsequent owners for the duration of the coverage—at no additional charge or deductibles for the customer. Parts, labor including diagnostic labor, limited travel, and removal and reinstallation are covered for the first and second years on virtually everything except routine maintenance. Parts, labor and travel on selected power train and generator parts are warranted for the remaining years or 2,000 hours.

We also offer other warranty options to address customers' diverse power needs. Please contact Cummins Onan Distributor/Dealer for more details. Our well trained professional technicians will be more than happy to make recommendations by your specific needs.

Our extensive global support and distribution network is there for you, worldwide. Our service technicians and engineers are highly trained with certification requirements. We strive to provide our customers with peace of mind and a better boating experience.

Maintenance and Parts

To obtain an Instruction Sheet (F-1576) providing brief operating instructions for the QD Series (including pre-start checks, starting the generator, and shutdown codes) plus a periodic maintenance schedule and list of maintenance parts, or to order genuine Cummins Onan parts, please contact the Cummins Onan Distributor/Dealer nearest to you.

Cruise Kits

The cruise kits provide all the necessary and essential generator maintenance and service parts boaters need for worry-free voyages. Enjoy peace-of-mind by having the parts on hand for routine maintenance.

Included in the cruise kits are the following parts:



- > Oil filter – 2 units
- > Oil filter wrench – 1 unit*
- > Fuel filter – 2 units
- > Sea water pump impeller kit – 2 units
- > V-belt – 1 unit
- > Zinc pencil – 2 units**
- > Convenient plastic carrying case
- > Laminated marine service & maintenance schedule***

* For MDKBJ/BW only

** For MDKBH and MDKBJ/BW zinc pencil is not required and not included

*** For current models only

Models and part numbers include:

| Model | Part Number |
|--|-------------|
| MDKBH | 100-3478-58 |
| MDKBJ, MDKBW | A029E631 |
| MDKBK, MDKBL, MDKBM, MDKBN | 100-3478-52 |
| MDKBT, MDKBU | 100-3478-60 |
| MDKBP, MDKBR (12 V Negative Ground Spec D & up) | 100-3478-61 |
| MDKBP, MDKBR (24 V Negative Ground Spec D & up) | 100-3478-62 |
| MDKBP, MDKBR (Isolated Ground Spec D & up) | 100-3478-63 |
| MDKBV (12 V Negative Ground) | 100-3478-61 |
| MDKBV (24 V Negative Ground) | 100-3478-62 |
| MDKBV (Isolated Ground) | 100-3478-63 |
| MDDCA/B/C/F/G/K | 541-1529-51 |
| MDDCD/E/H/J | 541-1529-52 |

To order kits, contact your closest
Cummins Onan Distributor/Dealer.

Accessories and Options

Cummins Onan offers a variety of commonly used accessories and options. Following is a partial list of categories of accessories and options available. For accessories catalogs or model specification sheets, visit www.cumminsonan.com.

Accessories available include sound shields, remote-mounted digital displays, harnesses, AC transfer switches, DC terminal boot kit, batteries, siphon break, mufflers, exhaust water separators, resonators, fuel water separator, hose barbs, and pipe adapters; and conversion kits including set-mounted digital displays, belt covers, low coolant level switch, AC output breakers, keel cooling, exhaust outlet, power take-off (PTO), and isolated ground conversions.

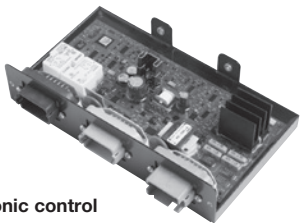
Options that are available when you order the generator (factory-installed) include 12 or 24 V DC, sound shields, set-mounted digital displays, low coolant level shutdown, keel cooling, dry exhaust, front power take-off (PTO), and others.

Not all accessories or options are available for every model; visit www.cumminsonan.com for complete specification information.

Diagnostics

The diagnostic features were designed with the customer in mind. Most generators will trip a breaker when something has gone wrong, however, you're never really sure what happened. With the information the diagnostic indicator provides, knowing what happened may make the difference between enjoying your weekend outing or waiting for a service call. If a service call is required, the knowledge you have to give the service technician will expedite the repair and get you on your way as quickly as possible. Our goal is to make boating even more enjoyable.

Cummins Onan generators have a number of self-protective shutdowns including high engine coolant temperature, high exhaust temperature, low oil pressure, over speed, over voltage, no raw water flow, and many others.



Electronic control

Following a protective shutdown, the status light on the generator will repeatedly blink a 1 or 2 digit code. A chart, mounted on the generator, provides an explanation of common faults such as high engine coolant temperature, high exhaust temperature, or low oil pressure. Additional fault codes and troubleshooting tips are listed in the Operator's Manual. You can also view fault codes in text on the digital display, if the boat is so equipped, or through network communications on various displays. These fault codes assist the operator or service personnel in evaluating a variety of other operating conditions and service checks. As many as 31 fault and warning codes can be displayed. Many times the boat owner is able to determine the cause of the shutdown and fix it himself. If service is required, the boat owner has access to diagnostic information the service person can use to assist in correcting the problem.



Cummins Onan Digital Display

The Cummins Onan Digital Display, makes it easy for the user to monitor generator operation. The user can view generator status, including AC voltage, AC frequency, coolant temperature, oil pressure, battery voltage, and generator hours; be alerted to a pre-alarm condition; and, if the generator shuts down, view the notification and diagnostic message in text. In addition, the panel provides a remote start/stop and a visual indication of generator status to let you know the generator is running, is in a pre-alarm mode, or has stopped.

Starting Procedure

The Cummins Onan smart technology makes starting the generator easy and trouble-free. The generator can be started from the start/stop switch which is standard on every generator, or a remote-mounted start/stop switch as with other QD models, or from the digital display.

Starting—using the start/stop switch

To start, simply push and hold the start switch until the green light comes on; then the operator can release the start switch. To turn off the generator, simply push the stop switch to stop.

Starting—using the Cummins Onan Digital Display

The digital display is easy to turn on by simply pressing any button on the display. To start the generator, push and hold the start button until the blinking green light stays on. To stop, press the stop button.

Refer to the Operator's Manual for complete instructions.

By pushing and holding the start switch, the controls automatically:

- > Runs through a self check
- > Activates fuel pump priming
- > Checks engine coolant temperature
- > Energizes glow plugs for appropriate amount of time based on coolant temperature (2–15 seconds)
- > Begins cranking the starter
- > Disengages starter automatically when reaching 800 rpm
- > Displays green run light when generator reaches 60/50 Hz
- > Glow plugs remain on for 2–5 seconds (post glow) after start based on coolant temperature to improve combustion and reduce smoke

4/5 QD

Quiet Diesel

4 kW 50 Hz/5 kW 60 Hz



Model MDKBH

| kW | Hz | RPM | Ph | Voltage | Amps |
|----|----|------|----|---------|-----------|
| 5 | 60 | 2900 | 1 | 120 | 41.7 |
| | | | | 120/240 | 41.7/20.8 |
| 4 | 50 | 2400 | 1 | 110/220 | 36.4/18.2 |
| | | | | 115/230 | 34.8/17.4 |
| | | | | 120/240 | 33.3/16.6 |

Dimensions

Housed, mm (in) (Not available unhoused)

Length 662 (26.1) x Width 511 (20.1) x

Height 524 (20.6)

Weight, kg (lb) 166 (365)

Sound Level

71 dB(A) at 60 Hz, 68 dB(A) at 50 Hz,
full load at 1 meter

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 4 kW/50 Hz | 5 kW/60 Hz |
|-----------|------------|------------|
| 1/4 load | 0.8 (0.21) | 1.0 (0.27) |
| 1/2 load | 1.0 (0.28) | 1.3 (0.35) |
| 3/4 load | 1.3 (0.35) | 1.7 (0.44) |
| Full load | 1.7 (0.44) | 2.1 (0.55) |

Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

6/7.5 QD

Quiet Diesel

6 kW 50 Hz/7.5 kW 60 Hz



Model MDKBJ

| kW | Hz | RPM | Ph | Voltage | Amps |
|-----|----|------|----|---------|-----------|
| 7.5 | 60 | 2900 | 1 | 120 | 62.5 |
| | | | | 120/240 | 62.5/31.3 |
| 6.0 | 50 | 2400 | 1 | 110/220 | 54.5/27.3 |
| | | | | 115/230 | 52.2/26.1 |
| | | | | 120/240 | 50.0/25.0 |

Dimensions

Housed, mm (in) (Not available unhoused)

Length 664 (26.1) x Width 583 (22.9) x

Height 535 (21.1)

Weight, kg (lb) 195 (429)

Sound Level

71 dB(A) at 60 Hz, 69 dB(A) at 50 Hz, full load at 1 meter with sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 6.0 kW/50 Hz | 7.5 kW/60 Hz |
|-----------|--------------|--------------|
| 1/4 load | 1.12 (0.30) | 1.40 (0.37) |
| 1/2 load | 1.46 (0.39) | 1.84 (0.48) |
| 3/4 load | 1.84 (0.48) | 2.33 (0.61) |
| Full load | 2.28 (0.60) | 2.93 (0.70) |

Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

7/9 QD

Quiet Diesel

7 kW 50 Hz/9 kW 60 Hz



Model MDKBL

| kW | Hz | RPM | Ph | Voltage | Amps |
|----|----|------|----|---------|-----------|
| 9 | 60 | 1800 | 1 | 120 | 75 |
| | | | | 120/240 | 75/37.5 |
| 7 | 50 | 1500 | | 110/220 | 63.6/31.8 |
| | | | | 115/230 | 60.9/30.4 |
| | | | | 120/240 | 58.3/29.2 |

Dimensions

Unhoused, mm (in)

Length 911 (35.9) x Width 566 (22.3) x

Height 585 (23.04)

Weight, kg (lb) 252 (555)

Housed, mm (in)

Length 911 (35.9) x Width 566 (22.3) x

Height 593 (23.4);

Weight, kg (lb) 272 (600)

Sound Level

66 dB(A) at 60 Hz, 65 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 7 kW/50 Hz | 9 kW/60 Hz |
|-----------|------------|------------|
| 1/4 load | 1.1 (0.3) | 1.3 (0.3) |
| 1/2 load | 1.5 (0.4) | 1.9 (0.5) |
| 3/4 load | 2.0 (0.5) | 2.6 (0.7) |
| Full load | 2.8 (0.8) | 3.8 (1.0) |

Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

7/9 QD

Quiet Diesel space saver

7 kW 50 Hz/9 kW 60 Hz



Model MDK BK

| kW | Hz | RPM | Ph | Voltage | Amps |
|----|----|------|----|---------|-----------|
| 9 | 60 | 1800 | 1 | 120 | 75 |
| | | | | 120/240 | 75/37.5 |
| 7 | 50 | 1500 | | 110/220 | 63.6/31.8 |
| | | | | 115/230 | 60.9/30.4 |
| | | | | 120/240 | 58.3/29.2 |

Dimensions

Unhoused, mm (in) (Not available housed)

Length 823 (32.4) x Width 479 (18.9) x

Height 560 (22.05)

Weight, kg (lb) 238 (525)

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 7 kW/50 Hz | 9 kW/60 Hz |
|-----------|------------|------------|
| 1/4 load | 1.1 (0.3) | 1.3 (0.3) |
| 1/2 load | 1.5 (0.4) | 1.9 (0.5) |
| 3/4 load | 2.0 (0.5) | 2.6 (0.7) |
| Full load | 2.8 (0.8) | 3.8 (1.0) |

Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

8 QD

Quiet Diesel

8 kW 50 Hz



Model MDKBW

| kW | Hz | RPM | Ph | Voltage | Amps |
|-----------|-----------|------------|-----------|----------------|-------------|
| 8 | 50 | 2880 | 1 | 110/220 | 72.7/36.4 |
| | | | 1 | 115/230 | 69.6/34.8 |
| | | | 1 | 120/240 | 66.6/33.3 |

Dimensions

Housed, mm (in)

Length 664 (26.1) x Width 583 (22.9) x

Height 535 (21.1)

Weight, kg (lb) 195 (429)

Sound Level

72.5 dB(A) at 50 Hz, full load at 1 meter

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

8 kW/50 Hz

| | |
|-----------|-------------|
| 1/4 load | 1.41 (0.37) |
| 1/2 load | 1.85 (0.49) |
| 3/4 load | 2.35 (0.62) |
| Full load | 2.97 (0.78) |

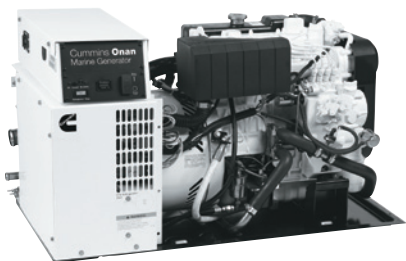
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

9.5/11.5 QD

Quiet Diesel

9.5 kW 50 Hz/11.5 kW 60 Hz



Model MDKBM

| kW | Hz | RPM | Ph | Voltage | Amps |
|------|----|------|----|---------|-----------|
| 11.5 | 60 | 1800 | 1 | 120 | 95.8 |
| | | | | 120/240 | 95.8/47.9 |
| 9.5 | 50 | 1500 | | 110/220 | 86.4/43.2 |
| | | | | 115/230 | 82.6/41.3 |
| | | | | 120/240 | 79.2/39.6 |

Dimensions

Unhoused, mm (in)

Length 1033 (40.7) x Width 566 (22.3) x

Height 585 (23.04)

Weight, kg (lb) 290 (640)

Housed, mm (in)

Length 1033 (40.7) x Width 566 (22.3) x

Height 593 (23.4)

Weight, kg (lb) 315 (695)

Sound Level

66 dB(A) at 60 Hz, 65 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 9.5 kW/50 Hz | 11.5 kW/60 Hz |
|-----------|--------------|---------------|
| 1/4 load | 1.4 (0.4) | 1.7 (0.4) |
| 1/2 load | 2.1 (0.6) | 2.5 (0.7) |
| 3/4 load | 2.8 (0.7) | 3.2 (0.8) |
| Full load | 3.4 (0.9) | 3.9 (1.0) |

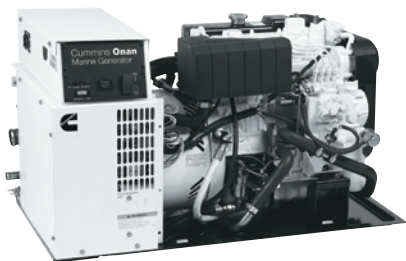
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

11/13.5 QD

Quiet Diesel

11 kW 50 Hz/13.5 kW 60 Hz



Model MDKBN

| kW | Hz | RPM | Ph | Voltage | Amps |
|------|----|------|----|---------|-----------|
| 13.5 | 60 | 1800 | 1 | 120 | 112.5 |
| | | | | 120/240 | 112/56.3 |
| 11 | 50 | 1500 | | 110/220 | 100/50 |
| | | | | 115/230 | 95.7/47.8 |
| | | | | 120/240 | 91.7/46 |

Dimensions

Unhoused, mm (in)

Length 1033 (40.7) x Width 566 (22.3) x

Height 585 (23.04)

Weight, kg (lb) 290 (640)

Housed, mm (in)

Length 1033 (40.7) x Width 566 (22.3) x

Height 593 (23.4)

Weight, kg (lb) 315 (695)

Sound Level

66 dB(A) at 60 Hz, 65 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 11 kW/50 Hz | 13.5 kW/60 Hz |
|-----------|-------------|---------------|
| 1/4 load | 1.5 (0.4) | 1.8 (0.5) |
| 1/2 load | 2.2 (0.6) | 2.6 (0.7) |
| 3/4 load | 3.0 (0.8) | 3.6 (1.0) |
| Full load | 4.0 (1.0) | 4.5 (1.2) |

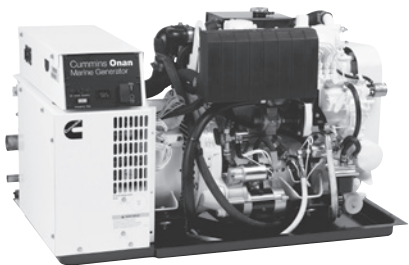
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

13.5/17 QD

Quiet Diesel

13.5 kW 50 Hz/17 kW 60 Hz



Model MDKBP

| kW | Hz | RPM | Ph | Voltage | Amps |
|------|----|------|----|---------|------------|
| 17 | 60 | 1800 | 1 | 120/240 | 141.7/70.8 |
| | | | 3 | 120/208 | 59.0 |
| 13.5 | 50 | 1500 | 1 | 110/220 | 122.7/61.4 |
| | | | | 115/230 | 117.4/58.7 |
| | | | | 120/240 | 112.5/56.3 |
| | | | 3 | 220/380 | 25.6 |

Dimensions

Unhoused, mm (in)

Length 1127 (44.4) x Width 602 (23.7) x

Height 672 (26.5)

Weight, kg (lb) 377 (830)

Housed, mm (in)

Length 1127 (44.4) x Width 602 (23.7) x

Height 698 (27.5)

Weight, kg (lb) 404 (890)

Sound Level

67 dB(A) at 60 Hz, 64 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

13.5 kW/50 Hz 17 kW/60 Hz

| | | |
|-----------|-----------|-----------|
| 1/4 load | 1.9 (0.5) | 2.3 (0.6) |
| 1/2 load | 2.7 (0.7) | 3.3 (0.9) |
| 3/4 load | 3.6 (0.9) | 4.5 (1.2) |
| Full load | 4.8 (1.3) | 6.0 (1.6) |

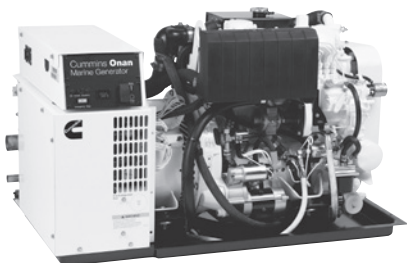
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

17.5/21.5 QD

Quiet Diesel

17.5 kW 50 Hz/21.5 kW 60 Hz



Model MDKBR

| kW | Hz | RPM | Ph | Voltage | Amps |
|------|----|------|----|---------|------------|
| 21.5 | 60 | 1800 | 1 | 120/240 | 179/89.6 |
| | | | 3 | 120/208 | 74.6 |
| 17.5 | 50 | 1500 | 1 | 110/220 | 159.1/79.5 |
| | | | | 115/230 | 152.2/76.1 |
| | | | | 120/240 | 145.8/72.9 |
| | | | 3 | 220/380 | 33.2 |

Dimensions

Unhoused, mm (in)

Length 1127 (44.4) x Width 602 (23.7) x

Height 672 (26.5)

Weight, kg (lb) 395 (870)

Housed, mm (in)

Length 1127 (44.4) x Width 602 (23.7) x

Height 698 (27.5)

Weight, kg (lb) 422 (930)

Sound Level

67 dB(A) at 60 Hz, 64 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 17.5 kW/50 Hz | 21.5 kW/60 Hz |
|-----------|---------------|---------------|
| 1/4 load | 2.3 (0.6) | 2.8 (0.7) |
| 1/2 load | 3.4 (0.9) | 4.0 (1.0) |
| 3/4 load | 4.7 (1.2) | 5.4 (1.4) |
| Full load | 6.5 (1.7) | 7.3 (1.9) |

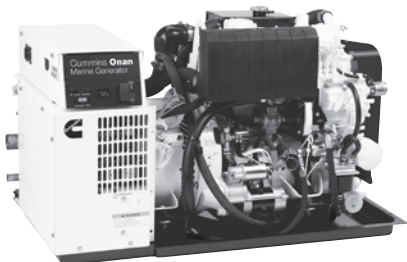
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

19/23 QD

Quiet Diesel

19 kW 50 Hz/23 kW 60 Hz



Model MDKBV

| kW | Hz | RPM | Ph | Voltage | Amps |
|----|----|------|----|---------|------------|
| 23 | 60 | 1800 | 1 | 120/240 | 191.7/95.8 |
| | | | 3 | 120/208 | 79.8 |
| 19 | 50 | 1500 | 1 | 110/220 | 172.7/86.4 |
| | | | | 115/230 | 165.2/82.6 |
| | | | 3 | 220/380 | 36.1 |

Dimensions

Unhoused, mm (in)

Length 1127 (44.4) x Width 602 (23.7) x

Height 672 (26.5)

Weight, kg (lb) 395 (870)

Housed, mm (in)

Length 1127 (44.4) x Width 602 (23.7) x

Height 698 (27.5)

Weight, kg (lb) 422 (930)

Sound Level

67 dB(A) at 60 Hz, 64 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 19 kW/50 Hz | 23 kW/60 Hz |
|-----------|-------------|-------------|
| 1/4 load | 2.5 (0.7) | 3.0 (0.8) |
| 1/2 load | 3.9 (1.0) | 4.4 (1.2) |
| 3/4 load | 5.2 (1.4) | 5.4 (1.6) |
| Full load | 6.6 (1.7) | 7.4 (2.0) |

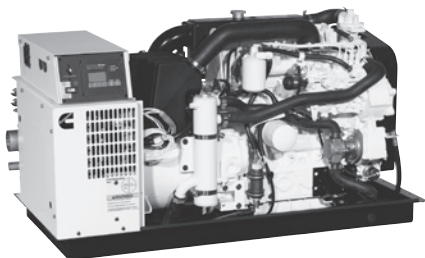
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

22.5/27.5 QD

Quiet Diesel

22.5 kW 50 Hz/27.5 kW 60 Hz



Model MDKBT

| kW | Hz | RPM | Ph | Voltage | Amps |
|------|----|------|----|---------|----------|
| 27.5 | 60 | 1800 | 1 | 120/240 | 229/115 |
| | | | 3 | 120/208 | 95.4 |
| 22.5 | 50 | 1500 | 1 | 110/220 | 205/102 |
| | | | | 115/230 | 196/97.8 |
| | | | | 120/240 | 188/93.8 |
| | | | 3 | 220/380 | 42.7 |

Dimensions

Unhoused, mm (in)

Length 1358 (53.5) x Width 622 (24.5) x

Height 731 (28.8)

Weight, kg (lb) 565 (1245)

Housed, mm (in)

Length 1358 (53.5) x Width 622 (24.5) x

Height 761 (30.0)

Weight, kg (lb) 601 (1325)

Sound Level

68 dB(A) at 60 Hz, 67 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

22.5 kW/50 Hz 27.5 kW/60 Hz

| | | |
|-----------|-----------|-----------|
| 1/4 load | 3.0 (0.8) | 3.7 (1.0) |
| 1/2 load | 4.0 (1.1) | 5.1 (1.3) |
| 3/4 load | 5.2 (1.4) | 6.7 (1.8) |
| Full load | 7.0 (1.8) | 9.2 (2.4) |

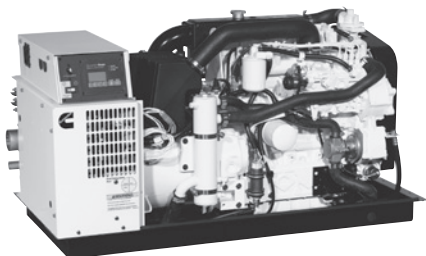
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

27/32 QD

Quiet Diesel

27 kW 50 Hz/32 kW 60 Hz



Model MDKBU

| kW | Hz | RPM | Ph | Voltage | Amps |
|----|----|------|----|---------|---------|
| 32 | 60 | 1800 | 1 | 120/240 | 267/133 |
| | | | 3 | 120/208 | 111 |
| 27 | 50 | 1500 | 1 | 110/220 | 245/123 |
| | | | | 115/230 | 235/117 |
| | | | | 120/240 | 225/113 |
| | | | 3 | 220/380 | 51.3 |

Dimensions

Unhoused, mm (in)

Length 1358 (53.5) x Width 622 (24.5) x

Height 731 (28.8)

Weight, kg (lb) 590 (1300)

Housed, mm (in)

Length 1358 (53.5) x Width 622 (24.5) x

Height 761 (30.0)

Weight, kg (lb) 626 (1380)

Sound Level

68 dB(A) at 60 Hz, 67 dB(A) at 50 Hz,

full load at 1 meter with optional Cummins

Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

| | 27 kW/50 Hz | 32 kW/60 Hz |
|-----------|--------------------|--------------------|
| 1/4 load | 3.0 (0.8) | 3.8 (1.0) |
| 1/2 load | 4.7 (1.2) | 5.6 (1.5) |
| 3/4 load | 6.2 (1.6) | 7.6 (2.0) |
| Full load | 9.1 (2.4) | 11.2 (3.0) |

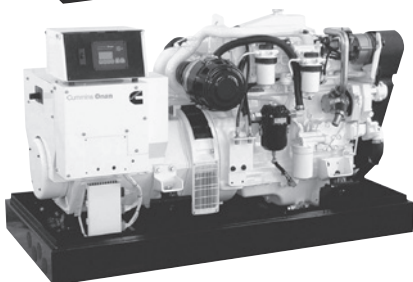
Features

- > Extensive diagnostic information
- > Optional SAE J1939 or SmartCraft network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Optional remote Digital Display
- > Largest support network
- > Transferable 5 year warranty

35 QD

Quiet Diesel

35 kW 50 Hz



Model MDDCK

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 35 | 50 | 4 | 1500 | 1 | 115/230 | 304.3/152.2 |
| | | | | | 110/220 | 318.2/159.1 |
| | | | | | 120/240 | 291.7/145.8 |
| | | | | 3 | 240/416 | 105.2/60.7 |
| | | | | | 115/230 | 219.6/109.8 |
| | | | | | 220/380 | 114.8/66.5 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 1734 (68.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 990 (2183)

Housed, mm (in)

Length 1738 (68.4) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1090 (2403)

Sound Level

72 dB(A) at 50 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

35 kW/50 Hz

| | |
|-----------|------------|
| 1/4 load | 3.9 (1.0) |
| 1/2 load | 6.4 (1.7) |
| 3/4 load | 9.0 (2.4) |
| Full load | 11.5 (3.0) |

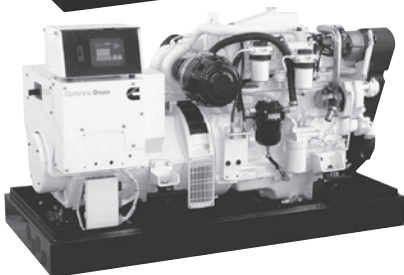
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

40 QD

Quiet Diesel

40 kW 60 Hz



Model MDDCA

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 40 | 60 | 4 | 1800 | 1 | 120/240 | 333.4/166.7 |
| | | | | 3 | 240/416 | 69.4 |
| | | | | | 127/220 | 131.2 |
| | | | | | 255/440 | 65.6 |
| | | | | | 120/208 | 138.8 |
| | | | | | 120/240 | 120.3 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 1734 (68.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 972 (2143)

Housed, mm (in)

Length 1738 (68.4) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1072 (2363)

Sound Level

72 dB(A) at 60 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

40 kW/60 Hz

| | |
|-----------|------------|
| 1/4 load | 4.5 (1.2) |
| 1/2 load | 7.2 (1.9) |
| 3/4 load | 9.9 (2.6) |
| Full load | 12.7 (3.4) |

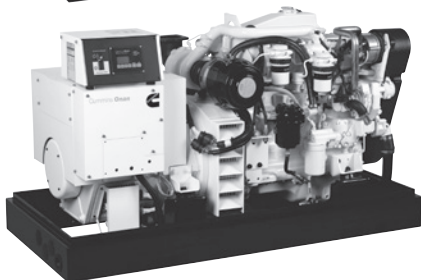
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

40 QD

Quiet Diesel

40 kW 50 Hz



Model MDDCF

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 40 | 50 | 4 | 1500 | 1 | 115/230 | 347.8/173.9 |
| | | | | | 110/220 | 363.6/181.8 |
| | | | | | 120/240 | 333.4/166.7 |
| | | | | 3 | 240/416 | 69.4 |
| | | | | | 115/230 | 125.5 |
| | | | | | 220/380 | 76.0 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 1734 (68.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 998 (2200)

Housed, mm (in)

Length 1738 (68.4) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1098 (2420)

Sound Level

72 dB(A) at 50 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

40 kW/50 Hz

| | |
|-----------|------------|
| 1/4 load | 3.9 (1.0) |
| 1/2 load | 6.4 (1.7) |
| 3/4 load | 9.0 (2.4) |
| Full load | 11.5 (3.0) |

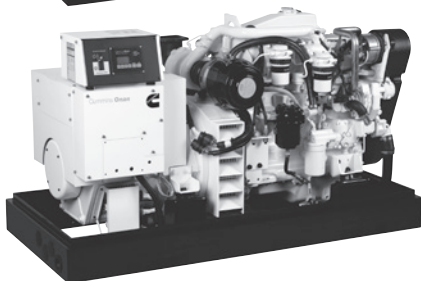
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

50 QD

Quiet Diesel

50 kW 50 Hz



Model MDDCG

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 50 | 50 | 4 | 1500 | 1 | 115/230 | 434.8/217.4 |
| | | | | | 110/220 | 454.6/227.3 |
| | | | | | 120/240 | 416.6/208.3 |
| | | | | 3 | 240/416 | 86.7 |
| | | | | | 115/230 | 156.9 |
| | | | | | 220/380 | 95.0 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 1779 (70.0) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1067 (2352)

Housed, mm (in)

Length 1783 (70.2) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1167 (2572)

Sound Level

72 dB(A) at 50 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

50 kW/50 Hz

| | |
|-----------|------------|
| 1/4 load | 4.6 (1.2) |
| 1/2 load | 7.6 (20.) |
| 3/4 load | 10.8 (2.9) |
| Full load | 14.1 (3.7) |

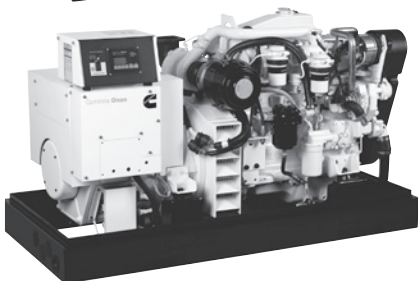
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

55 QD

Quiet Diesel

55 kW 60 Hz



Model MDDCB

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 55 | 60 | 4 | 1800 | 1 | 120/240 | 458.4/229.2 |
| | | | | 3 | 240/416 | 95.4 |
| | | | | | 127/220 | 180.4 |
| | | | | | 255/440 | 90.2 |
| | | | | | 120/208 | 190.8 |
| | | | | | 120/240 | 165.4 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 1779 (70.0) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1067 (2352)

Housed, mm (in)

Length 1783 (70.2) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1167 (2572)

Sound Level

72 dB(A) at 60 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

55 kW/60 Hz

| | |
|-----------|------------|
| 1/4 load | 5.5 (1.4) |
| 1/2 load | 9.3 (2.4) |
| 3/4 load | 13.0 (3.4) |
| Full load | 16.8 (4.4) |

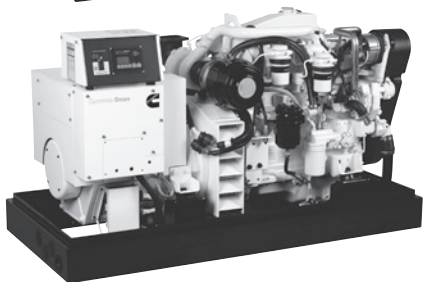
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

65 QD

Quiet Diesel

65 kW 60 Hz



Model MDDCC

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 65 | 60 | 4 | 1800 | 1 | 120/240 | 541.6/270.8 |
| | | | | 3 | 240/416 | 112.8 |
| | | | | | 127/220 | 213.2 |
| | | | | | 255/440 | 106.6 |
| | | | | | 120/208 | 225.5 |
| | | | | | 120/240 | 195.5 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 1779 (70.0) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1067 (2352)

Housed, mm (in)

Length 1783 (70.2) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1167 (2572)

Sound Level

72 dB(A) at 60 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

65 kW/60 Hz

| | |
|-----------|------------|
| 1/4 load | 5.8 (1.5) |
| 1/2 load | 10.7 (2.8) |
| 3/4 load | 14.3 (4.0) |
| Full load | 19.7 (5.2) |

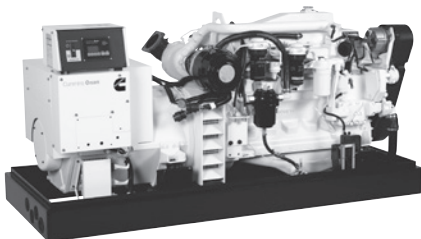
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

65 QD

Quiet Diesel

65 kW 50 Hz



Model MDDCH

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 65 | 50 | 6 | 1500 | 1 | 115/230 | 565.2/282.6 |
| | | | | | 110/220 | 591.0/295.5 |
| | | | | | 120/240 | 541.6/270.8 |
| | | | | 3 | 240/416 | 112.8 |
| | | | | | 115/230 | 204.0 |
| | | | | | 220/380 | 123.4 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 2142 (84.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1320 (2910)

Housed, mm (in)

Length 2146 (84.5) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1434 (3161)

Sound Level

70 dB(A) at 50 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

65 kW/50 Hz

| | |
|-----------|------------|
| 1/4 load | 5.7 (1.5) |
| 1/2 load | 9.9 (2.6) |
| 3/4 load | 14.1 (3.7) |
| Full load | 18.4 (4.9) |

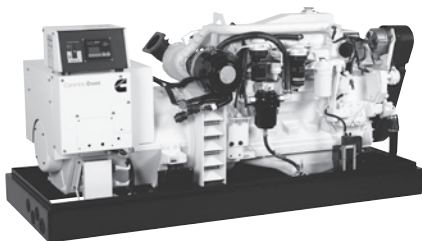
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

80 QD

Quiet Diesel

80 kW 60 Hz



Model MDDCD

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 80 | 60 | 6 | 1800 | 1 | 120/240 | 666.6/333.3 |
| | | | | 3 | 240/416 | 138.8 |
| | | | | | 127/220 | 262.4 |
| | | | | | 255/440 | 131.2 |
| | | | | | 120/208 | 277.6 |
| | | | | | 120/240 | 240.6 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 2142 (84.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1320 (2910)

Housed, mm (in)

Length 2146 (84.5) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1434 (3161)

Sound Level

70 dB(A) at 60 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

80 kW/60 Hz

| | |
|-----------|------------|
| 1/4 load | 7.6 (2.0) |
| 1/2 load | 13.2 (3.5) |
| 3/4 load | 18.7 (4.9) |
| Full load | 24.2 (6.4) |

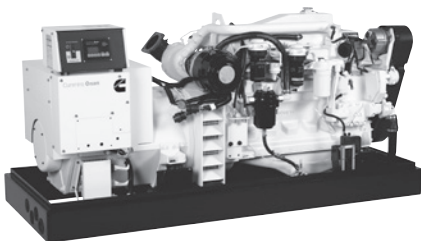
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

80 QD

Quiet Diesel

80 kW 50 Hz



Model MDDCJ

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|------|----|---------|-------------|
| 80 | 50 | 6 | 1500 | 1 | 115/230 | 695.6/347.8 |
| | | | | | 110/220 | 727.2/363.6 |
| | | | | | 120/240 | 666.6/333.3 |
| | | | | 3 | 240/416 | 138.8 |
| | | | | | 115/230 | 288.7 |
| | | | | | 220/380 | 151.9 |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 2142 (84.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1320 (2910)

Housed, mm (in)

Length 2146 (84.5) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1434 (3161)

Sound Level

70 dB(A) at 50 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

80 kW/50 Hz

| | |
|-----------|------------|
| 1/4 load | 6.7 (1.8) |
| 1/2 load | 11.8 (3.1) |
| 3/4 load | 16.9 (4.5) |
| Full load | 22.4 (5.9) |

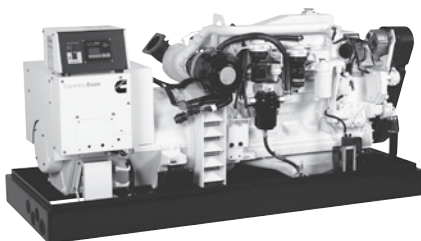
Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

99 QD

Quiet Diesel

99 kW 60 Hz



Model MDDCE

| kW | Hz | Cyl | RPM | Ph | Voltage | Amps |
|----|----|-----|---------|----|---------|-------------|
| 99 | 60 | 6 | 1800 | 1 | 120/240 | 825.0/412.5 |
| | | 3 | 240/416 | | 171.7 | |
| | | | 127/220 | | 324.8 | |
| | | | 255/440 | | 162.4 | |
| | | | 120/208 | | 343.5 | |
| | | | 120/240 | | 297.7 | |

Additional configurations/voltages available.

Dimensions

Unhoused, mm (in)

Length 2142 (84.3) x Width 822 (32.4) x

Height 994 (39.1)

Weight, kg (lb) 1320 (2910)

Housed, mm (in)

Length 2146 (84.5) x Width 840 (33.1) x

Height 1039 (40.9)

Weight, kg (lb) 1434 (3161)

Sound Level

72 dB(A) at 60 Hz, full load at 1 meter

with optional Cummins Onan sound shield

Fuel Consumption

No. 2 diesel fuel, L/hr (Gal/hr)

99 kW/60 Hz

| | |
|-----------|------------|
| 1/4 load | 9.2 (2.4) |
| 1/2 load | 15.5 (4.1) |
| 3/4 load | 22.9 (6.0) |
| Full load | 29.4 (7.8) |

Features

- > Extensive diagnostic information
- > SAE J1939 network communications
- > Raw water flow protection
- > Electronic governing for quality power
- > Low noise and vibration
- > Set-mounted Digital Display
- > Largest support network
- > Transferable 5 year warranty

For more information visit www.cumminsonan.com.
Specifications subject to change without notice.

NOTES

NOTES

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